Anna S Akhmanova

List of Publications by Year
in descending order

225	21,992	8749	11928
papers	citations	75 h-index	134 g-index

412	412	412	18012
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tracking the ends: a dynamic protein network controls the fate of microtubule tips. Nature Reviews Molecular Cell Biology, 2008, 9, 309-322.	16.1	908
2	Control of microtubule organization and dynamics: two ends in the limelight. Nature Reviews Molecular Cell Biology, 2015, 16, 711-726.	16.1	733
3	Visualization of Microtubule Growth in Cultured Neurons via the Use of EB3-GFP (End-Binding Protein) Tj ETQq1 1 0.784314 rgBT /Over	1.7	624
4	An EB1-Binding Motif Acts as a Microtubule Tip Localization Signal. Cell, 2009, 138, 366-376.	13.5	594
5	Dynamic Microtubules Regulate Dendritic Spine Morphology and Synaptic Plasticity. Neuron, 2009, 61, 85-100.	3.8	570
6	Asymmetric CLASP-Dependent Nucleation of Noncentrosomal Microtubules at the trans-Golgi Network. Developmental Cell, 2007, 12, 917-930.	3.1	481
7	CLASPs Are CLIP-115 and -170 Associating Proteins Involved in the Regional Regulation of Microtubule Dynamics in Motile Fibroblasts. Cell, 2001, 104, 923-935.	13.5	462
8	Vinculin associates with endothelial VE-cadherin junctions to control force-dependent remodeling. Journal of Cell Biology, 2012, 196, 641-652.	2.3	411
9	CLASP1 and CLASP2 bind to EB1 and regulate microtubule plus-end dynamics at the cell cortex. Journal of Cell Biology, 2005, 168, 141-153.	2.3	409
10	STIM1 Is a MT-Plus-End-Tracking Protein Involved in Remodeling of the ER. Current Biology, 2008, 18, 177-182.	1.8	378
11	Bicaudal-D regulates COPI-independent Golgiâ€“ER transport by recruiting the dyneinâ€“dynactin motor complex. Nature Cell Biology, 2002, 4, 986-992.	4.6	357
12	TRAK/Milton Motor-Adaptor Proteins Steer Mitochondrial Trafficking to Axons and Dendrites. Neuron, 2013, 77, 485-502.	3.8	336
13	Mammalian end binding proteins control persistent microtubule growth. Journal of Cell Biology, 2009, 184, 691-706.	2.3	331
14	Rab6 Regulates Transport and Targeting of Exocytotic Carriers. Developmental Cell, 2007, 13, 305-314.	3.1	295
15	CLASPs Attach Microtubule Plus Ends to the Cell Cortex through a Complex with LL5Î². Developmental Cell, 2006, 11, 21-32.	3.1	288
16	Microtubule plus-end-tracking proteins: mechanisms and functions. Current Opinion in Cell Biology, 2005, 17, 47-54.	2.6	278
17	A hydrogenosome with a genome. Nature, 1998, 396, 527-528.	13.7	270
18	Bicaudal D2, Dynein, and Kinesin-1 Associate with Nuclear Pore Complexes and Regulate Centrosome and Nuclear Positioning during Mitotic Entry. PLoS Biology, 2010, 8, e1000350.	2.6	268

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19	Auxin transport inhibitors impair vesicle motility and actin cytoskeleton dynamics in diverse eukaryotes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4489-4494.	3.3	239
20	Microtubule +TIPs at a glance. Journal of Cell Science, 2010, 123, 3415-3419.	1.2	236
21	Microtubule Minus-End Stabilization by Polymerization-Driven CAMSAP Deposition. Developmental Cell, 2014, 28, 295-309.	3.1	235
22	BICD2, dynactin, and LIS1 cooperate in regulating dynein recruitment to cellular structures. Molecular Biology of the Cell, 2012, 23, 4226-4241.	0.9	231
23	Cytoplasmic linker proteins promote microtubule rescue in vivo. Journal of Cell Biology, 2002, 159, 589-599.	2.3	224
24	Centralspindlin and Î±-catenin regulate Rho signalling at the epithelial zonula adherens. Nature Cell Biology, 2012, 14, 818-828.	4.6	224
25	LIS1, CLIP-170's Key to the Dynein/Dynactin Pathway. Molecular and Cellular Biology, 2002, 22, 3089-3102.	1.1	222
26	Microtubule Plus End: A Hub of Cellular Activities. Traffic, 2006, 7, 499-507.	1.3	205
27	Motor Neuron Disease-Associated Mutant Vesicle-Associated Membrane Protein-Associated Protein (VAP) B Recruits Wild-Type VAPs into Endoplasmic Reticulum-Derived Tubular Aggregates. Journal of Neuroscience, 2007, 27, 9801-9815.	1.7	203
28	Combined CRISPRi/a-Based Chemical Genetic Screens Reveal that Rigosertib Is a Microtubule-Destabilizing Agent. Molecular Cell, 2017, 68, 210-223.e6.	4.5	197
29	Bicaudal D induces selective dynein-mediated microtubule minus end-directed transport. EMBO Journal, 2003, 22, 6004-6015.	3.5	196
30	Microtubule Minus-End Binding Protein CAMSAP2 Controls Axon Specification and Dendrite Development. Neuron, 2014, 82, 1058-1073.	3.8	193
31	A Proteome-wide Screen for Mammalian SxIP Motif-Containing Microtubule Plus-End Tracking Proteins. Current Biology, 2012, 22, 1800-1807.	1.8	192
32	Linking molecular motors to membrane cargo. Current Opinion in Cell Biology, 2010, 22, 479-487.	2.6	191
33	EB1 and EB3 Control CLIP Dissociation from the Ends of Growing Microtubules. Molecular Biology of the Cell, 2005, 16, 5334-5345.	0.9	182
34	Structure-function relationship of CAP-Gly domains. Nature Structural and Molecular Biology, 2007, 14, 959-967.	3.6	176
35	Microtubule Minus-End-Targeting Proteins. Current Biology, 2015, 25, R162-R171.	1.8	172
36	TRIM46 Controls Neuronal Polarity and Axon Specification by Driving the Formation of Parallel Microtubule Arrays. Neuron, 2015, 88, 1208-1226.	3.8	170

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37	Microtubule-Organizing Centers. Annual Review of Cell and Developmental Biology, 2017, 33, 51-75.	4.0	169
38	Dynamic microtubules regulate the local concentration of E-cadherin at cell-cell contacts. Journal of Cell Science, 2006, 119, 1801-1811.	1.2	167
39	Rab6, Rab8, and MICAL3 Cooperate in Controlling Docking and Fusion of Exocytotic Carriers. Current Biology, 2011, 21, 967-974.	1.8	167
40	Targeted mutation of Cyln2 in the Williams syndrome critical region links CLIP-115 haploinsufficiency to neurodevelopmental abnormalities in mice. Nature Genetics, 2002, 32, 116-127.	9.4	163
41	Conformational changes in CLIP-170 regulate its binding to microtubules and dynactin localization. Journal of Cell Biology, 2004, 166, 1003-1014.	2.3	159
42	Role of CLASP2 in Microtubule Stabilization and the Regulation of Persistent Motility. Current Biology, 2006, 16, 2259-2264.	1.8	159
43	Dynein Recruitment to Nuclear Pores Activates Apical Nuclear Migration and Mitotic Entry in Brain Progenitor Cells. Cell, 2013, 154, 1300-1313.	13.5	158
44	CFEOM1-Associated Kinesin KIF21A Is a Cortical Microtubule Growth Inhibitor. Developmental Cell, 2013, 27, 145-160.	3.1	157
45	Talin-KANK1 interaction controls the recruitment of cortical microtubule stabilizing complexes to focal adhesions. ELife, 2016, 5, .	2.8	150
46	Microtubule minus-end regulation at spindle poles by an ASPMâ€“katanin complex. Nature Cell Biology, 2017, 19, 480-492.	4.6	147
47	Pericentrosomal targeting of Rab6 secretory vesicles by Bicaudal-D-related protein 1 (BICDR-1) regulates neuritogenesis. EMBO Journal, 2010, 29, 1637-1651.	3.5	144
48	Regulation of microtubule dynamic instability. Biochemical Society Transactions, 2009, 37, 1007-1013.	1.6	137
49	MAP2 Defines a Pre-axonal Filtering Zone to Regulate KIF1- versus KIF5-Dependent Cargo Transport in Sensory Neurons. Neuron, 2017, 94, 347-362.e7.	3.8	134
50	In Vitro Reconstitution of the Functional Interplay between MCAK and EB3 at Microtubule Plus Ends. Current Biology, 2010, 20, 1717-1722.	1.8	130
51	Actinâ€“microtubule coordination at growing microtubule ends. Nature Communications, 2014, 5, 4778.	5.8	126
52	Hydrogenosomes: eukaryotic adaptations to anaerobic environments. Trends in Microbiology, 1999, 7, 441-447.	3.5	124
53	N-WASP regulates the epithelial junctional actin cytoskeleton through a non-canonical post-nucleation pathway. Nature Cell Biology, 2011, 13, 934-943.	4.6	122
54	A Complex of Kif18b and MCAK Promotes Microtubule Depolymerization and Is Negatively Regulated by Aurora Kinases. Current Biology, 2011, 21, 1356-1365.	1.8	121

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55	Arabidopsis BIRD Zinc Finger Proteins Jointly Stabilize Tissue Boundaries by Confining the Cell Fate Regulator SHORT-ROOT and Contributing to Fate Specification. Plant Cell, 2015, 27, 1185-1199.	3.1	121
56	Xylose metabolism in the anaerobic fungus Piromyces sp. strain E2 follows the bacterial pathway. Archives of Microbiology, 2003, 180, 134-141.	1.0	117
57	SLAIN2 links microtubule plus endâ€“tracking proteins and controls microtubule growth in interphase. Journal of Cell Biology, 2011, 193, 1083-1099.	2.3	116
58	Molecular Pathway of Microtubule Organization at the Golgi Apparatus. Developmental Cell, 2016, 39, 44-60.	3.1	114
59	MAP7 family proteins regulate kinesin-1 recruitment and activation. Journal of Cell Biology, 2019, 218, 1298-1318.	2.3	114
60	CLASP Suppresses Microtubule Catastrophes through a Single TOG Domain. Developmental Cell, 2018, 46, 40-58.e8.	3.1	110
61	Dynamic behavior of GFPâ€“CLIP-170 reveals fast protein turnover on microtubule plus ends. Journal of Cell Biology, 2008, 180, 729-737.	2.3	107
62	Dynein Regulator NDEL1 Controls Polarized Cargo Transport at the Axon Initial Segment. Neuron, 2016, 89, 461-471.	3.8	107
63	Capturing protein tails by CAP-Gly domains. Trends in Biochemical Sciences, 2008, 33, 535-545.	3.7	106
64	Microtubule tip-interacting proteins: a view from both ends. Current Opinion in Cell Biology, 2011, 23, 94-101.	2.6	106
65	Microtubules in 3D cell motility. Journal of Cell Science, 2017, 130, 39-50.	1.2	102
66	The microtubule plus-end-tracking protein CLIP-170 associates with the spermatid manchette and is essential for spermatogenesis. Genes and Development, 2005, 19, 2501-2515.	2.7	101
67	NMDA Receptor Activation Suppresses Microtubule Growth and Spine Entry. Journal of Neuroscience, 2011, 31, 8194-8209.	1.7	101
68	End-binding proteins sensitize microtubules to the action of microtubule-targeting agents. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8900-8905.	3.3	101
69	Bicaudal D Family Adaptor Proteins Control the Velocity of Dynein-Based Movements. Cell Reports, 2014, 8, 1248-1256.	2.9	101
70	Multiple origins of hydrogenosomes: functional and phylogenetic evidence from the ADP/ATP carrier of the anaerobic chytrid Neocallimastix sp.. Molecular Microbiology, 2002, 44, 1441-1454.	1.2	100
71	The anaerobic chytridiomycete fungus Piromyces sp. E2 produces ethanol via pyruvate:formate lyase and an alcohol dehydrogenase E. Molecular Microbiology, 2004, 51, 1389-1399.	1.2	100
72	Termination of Protofilament Elongation by Eribulin Induces Lattice Defects that Promote Microtubule Catastrophes. Current Biology, 2016, 26, 1713-1721.	1.8	97

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73	EB1 and EB3 promote cilia biogenesis by several centrosome-related mechanisms. Journal of Cell Science, 2011, 124, 2539-2551.	1.2	95
74	Microtubule-binding proteins CLASP1 and CLASP2 interact with actin filaments. Cytoskeleton, 2007, 64, 519-530.	4.4	93
75	Bicaudal D Family of Motor Adaptors: Linking Dynein Motility to Cargo Binding. Trends in Cell Biology, 2016, 26, 327-340.	3.6	93
76	Centriolar CPAP/SAS-4 Imparts Slow Processive Microtubule Growth. Developmental Cell, 2016, 37, 362-376.	3.1	90
77	Deconvolution of Buparlisibâ€™s mechanism of action defines specific PI3K and tubulin inhibitors for therapeutic intervention. Nature Communications, 2017, 8, 14683.	5.8	88
78	A structural model for microtubule minus-end recognition and protection by CAMSAP proteins. Nature Structural and Molecular Biology, 2017, 24, 931-943.	3.6	86
79	Control of apico-basal epithelial polarity by the microtubule minus-end binding protein CAMSAP3 and spectraplakin ACF7. Journal of Cell Science, 2016, 129, 4278-4288.	1.2	84
80	LIMK1 and CLIP-115: linking cytoskeletal defects to Williams syndrome. BioEssays, 2004, 26, 141-150.	1.2	83
81	EB1 interacts with outwardly curved and straight regions of the microtubule lattice. Nature Cell Biology, 2016, 18, 1102-1108.	4.6	81
82	Generation and regulation of microtubule network asymmetry to drive cell polarity. Current Opinion in Cell Biology, 2020, 62, 86-95.	2.6	81
83	A novel mouse model with impaired dynein/dynactin function develops amyotrophic lateral sclerosis (ALS)-like features in motor neurons and improves lifespan in SOD1-ALS mice. Human Molecular Genetics, 2008, 17, 2849-2862.	1.4	77
84	Microtubule plus-end tracking proteins in neuronal development. Cellular and Molecular Life Sciences, 2016, 73, 2053-2077.	2.4	76
85	EB1 and EB3 regulate microtubule minus end organization and Golgi morphology. Journal of Cell Biology, 2017, 216, 3179-3198.	2.3	76
86	CLIP-170-Dependent Capture of Membrane Organelles by Microtubules Initiates Minus-End Directed Transport. Developmental Cell, 2009, 17, 323-333.	3.1	75
87	Laminin-based cell adhesion anchors microtubule plus ends to the epithelial cell basal cortex through LL5Î±/Î². Journal of Cell Biology, 2010, 189, 901-917.	2.3	74
88	A hydrogenosome with pyruvate formate-lyase: anaerobic chytrid fungi use an alternative route for pyruvate catabolism. Molecular Microbiology, 1999, 32, 1103-1114.	1.2	71
89	Visualizing cellular and tissue ultrastructure using Ten-fold Robust Expansion Microscopy (TREx). ELife, 2022, 11, .	2.8	70
90	Developmental and Activity-Dependent miRNA Expression Profiling in Primary Hippocampal Neuron Cultures. PLoS ONE, 2013, 8, e74907.	1.1	69

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91	Mesenchymal Cell Invasion Requires Cooperative Regulation of Persistent Microtubule Growth by SLAIN2 and CLASP1. Developmental Cell, 2016, 39, 708-723.	3.1	69
92	Optogenetic dissection of mitotic spindle positioning in vivo. ELife, 2018, 7, .	2.8	69
93	Hydrogenosomes: convergent adaptations of mitochondria to anaerobic environments. Zoology, 2001, 104, 290-302.	0.6	68
94	Microtubule minus-end regulation at a glance. Journal of Cell Science, 2019, 132, .	1.2	67
95	Touch, Grasp, Deliver and Control: Functional Crossâ€Talk Between Microtubules and Cell Adhesions. Traffic, 2009, 10, 268-274.	1.3	66
96	Dynamic microtubules produce an asymmetric E-cadherinâ€“Bazooka complex to maintain segment boundaries. Journal of Cell Biology, 2013, 201, 887-901.	2.3	66
97	Probing cytoskeletal modulation of passive and active intracellular dynamics using nanobody-functionalized quantum dots. Nature Communications, 2017, 8, 14772.	5.8	65
98	A highly expressed family 1 Î²-glucosidase with transglycosylation capacity from the anaerobic fungus Piromyces sp. E2. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1574, 293-303.	2.4	63
99	Rb and FZR1/Cdh1 determine CDK4/6-cyclin D requirement in C. elegans and human cancer cells. Nature Communications, 2015, 6, 5906.	5.8	62
100	Structure and expression of histone H3.3 genes inDrosophila melanogasterandDrosophila hydei. Genome, 1995, 38, 586-600.	0.9	59
101	A Mitochondrial Ancestry of the Hydrogenosomes of Nyctotherus ovalis. Molecular Biology and Evolution, 2000, 17, 202-206.	3.5	59
102	A role for the Rab6B Bicaudalâ€“D1 interaction in retrograde transport in neuronal cells. Experimental Cell Research, 2007, 313, 3408-3420.	1.2	59
103	Insights into EB1 structure and the role of its C-terminal domain for discriminating microtubule tips from the lattice. Molecular Biology of the Cell, 2011, 22, 2912-2923.	0.9	59
104	Myosin-V Opposes Microtubule-Based Cargo Transport and Drives Directional Motility on Cortical Actin. Current Biology, 2013, 23, 828-834.	1.8	59
105	A hydrogenosomal [Fe]-hydrogenase from the anaerobic chytrid Neocallimastix sp. L2. Gene, 2002, 284, 103-112.	1.0	58
106	The ALS8 protein VAPB interacts with the ERâ€“Golgi recycling protein YIF1A and regulates membrane delivery into dendrites. EMBO Journal, 2013, 32, 2056-2072.	3.5	58
107	Control of endothelial cell polarity and sprouting angiogenesis by non-centrosomal microtubules. ELife, 2018, 7, .	2.8	58
108	Microtubule plus-end tracking proteins in differentiated mammalian cells. International Journal of Biochemistry and Cell Biology, 2008, 40, 619-637.	1.2	57

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109	Cell and Molecular Biology of Microtubule Plus End Tracking Proteins. International Review of Cell and Molecular Biology, 2010, 285, 1-74.	1.6	57
110	Linking cortical microtubule attachment and exocytosis. F1000Research, 2017, 6, 469.	0.8	57
111	ATIP3, a Novel Prognostic Marker of Breast Cancer Patient Survival, Limits Cancer Cell Migration and Slows Metastatic Progression by Regulating Microtubule Dynamics. Cancer Research, 2013, 73, 2905-2915.	0.4	56
112	Coming into Focus: Mechanisms of Microtubule Minus-End Organization. Trends in Cell Biology, 2018, 28, 574-588.	3.6	56
113	KIF13B establishes a CAV1-enriched microdomain at the ciliary transition zone to promote Sonic hedgehog signalling. Nature Communications, 2017, 8, 14177.	5.8	55
114	Aurora B spatially regulates EB3 phosphorylation to coordinate daughter cell adhesion with cytokinesis. Journal of Cell Biology, 2013, 201, 709-724.	2.3	54
115	Feedback-Driven Assembly of the Axon Initial Segment. Neuron, 2019, 104, 305-321.e8.	3.8	54
116	Publishing in the time of COVID-19. ELife, 2020, 9, .	2.8	54
117	Mechanisms of microtubule organization in differentiated animal cells. Nature Reviews Molecular Cell Biology, 2022, 23, 541-558.	16.1	54
118	Mammalian CLASPs are required for mitotic spindle organization and kinetochore alignment. Genes To Cells, 2006, 11, 845-857.	0.5	52
119	Microtubule-targeting-dependent reorganization of filopodia. Journal of Cell Science, 2007, 120, 1235-1244.	1.2	52
120	<scp>SCARECROW</scp>â€<scp>LIKE</scp>23 and <scp>SCARECROW</scp> jointly specify endodermal cell fate but distinctly control <scp>SHORT</scp>â€<scp>ROOT</scp> movement. Plant Journal, 2015, 84, 773-784.	2.8	52
121	Photoswitchable paclitaxel-based microtubule stabilisers allow optical control over the microtubule cytoskeleton. Nature Communications, 2020, 11, 4640.	5.8	52
122	Kinesin-4 KIF21B is a potent microtubule pausing factor. ELife, 2017, 6, .	2.8	51
123	CLASP Mediates Microtubule Repair by Restricting Lattice Damage and Regulating Tubulin Incorporation. Current Biology, 2020, 30, 2175-2183.e6.	1.8	50
124	The intracellular redox protein MICAL-1 regulates the development of hippocampal mossy fibre connections. Nature Communications, 2014, 5, 4317.	5.8	49
125	Molecular Insights into Mammalian End-binding Protein Heterodimerization. Journal of Biological Chemistry, 2010, 285, 5802-5814.	1.6	48
126	Differential expression of liprinâ€Î± family proteins in the brain suggests functional diversification. Journal of Comparative Neurology, 2011, 519, 3040-3060.	0.9	47

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127	Structural Basis of Formation of the Microtubule Minus-End-Regulating CAMSAP-Katanin Complex. Structure, 2018, 26, 375-382.e4.	1.6	47
128	Concerted action of kinesins KIF5B and KIF13B promotes efficient secretory vesicle transport to microtubule plus ends. ELife, 2020, 9, .	2.8	46
129	Cytolinker Gas2L1 regulates axon morphology through microtubuleâ€modulated actin stabilization. EMBO Reports, 2019, 20, e47732.	2.0	45
130	Cytosolic enzymes with a mitochondrial ancestry from the anaerobic chytrid Piromyces sp. E2. Molecular Microbiology, 1998, 30, 1017-1027.	1.2	44
131	Sequence Determinants of a Microtubule Tip Localization Signal (MtLS). Journal of Biological Chemistry, 2012, 287, 28227-28242.	1.6	44
132	Microtubule Plus-End Tracking Proteins SLAIN1/2 and ch-TOG Promote Axonal Development. Journal of Neuroscience, 2012, 32, 14722-14728a.	1.7	44
133	A role for Bicaudal-D2 in radial cerebellar granule cell migration. Nature Communications, 2014, 5, 3411.	5.8	44
134	Taxanes convert regions of perturbed microtubule growth into rescue sites. Nature Materials, 2020, 19, 355-365.	13.3	44
135	A Robust, GFP-Orthogonal Photoswitchable Inhibitor Scaffold Extends Optical Control over the Microtubule Cytoskeleton. Cell Chemical Biology, 2021, 28, 228-241.e6.	2.5	43
136	MKLP2 Is a Motile Kinesin that Transports the Chromosomal Passenger Complex during Anaphase. Current Biology, 2020, 30, 2628-2637.e9.	1.8	42
137	Epothilone B inhibits migration of glioblastoma cells by inducing microtubule catastrophes and affecting EB1 accumulation at microtubule plus ends. Biochemical Pharmacology, 2012, 84, 432-443.	2.0	41
138	Phosphorylation Controls Autoinhibition of Cytoplasmic Linker Protein-170. Molecular Biology of the Cell, 2010, 21, 2661-2673.	0.9	40
139	Campylobacter jejuni Translocation across Intestinal Epithelial Cells Is Facilitated by Ganglioside-Like Lipooligosaccharide Structures. Infection and Immunity, 2012, 80, 3307-3318.	1.0	39
140	Two populations of cytoplasmic dynein contribute to spindle positioning in C. elegans embryos. Journal of Cell Biology, 2017, 216, 2777-2793.	2.3	39
141	Short Linear Sequence Motif LxxPTPh Targets Diverse Proteins to Growing Microtubule Ends. Structure, 2017, 25, 924-932.e4.	1.6	37
142	Tipping microtubule dynamics, one protofilament at a time. Current Opinion in Cell Biology, 2018, 50, 86-93.	2.6	37
143	The localization of histone H3.3 in germ line chromatin of Drosophila males as established with a histone H3.3-specific antiserum. Chromosoma, 1997, 106, 335-347.	1.0	36
144	Structural determinants of microtubule minus end preference in CAMSAP CKK domains. Nature Communications, 2019, 10, 5236.	5.8	36

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145	Microtubules and cadherins: a neglected partnership. Frontiers in Bioscience - Landmark, 2009, Volume, 3159.	3.0	35
146	MAP7D2 Localizes to the Proximal Axon and Locally Promotes Kinesin-1-Mediated Cargo Transport into the Axon. Cell Reports, 2019, 26, 1988-1999.e6.	2.9	35
147	Identification and characterization of the Drosophila histone H4 replacement gene. FEBS Letters, 1996, 388, 219-222.	1.3	34
148	A serpin in the cellulosome of the anaerobic fungus Piromyces sp. strain E2. Mycological Research, 2008, 112, 999-1006.	2.5	34
149	Regulation of localization and activity of the microtubule depolymerase MCAK. Bioarchitecture, 2011, 1, 80-87.	1.5	34
150	Force-Dependent Regulation of Talinâ€“KANK1 Complex at Focal Adhesions. Nano Letters, 2019, 19, 5982-5990.	4.5	34
151	A CEP104-CSPP1 Complex Is Required for Formation of Primary Cilia Competent in Hedgehog Signaling. Cell Reports, 2019, 28, 1907-1922.e6.	2.9	34
152	Pyrrole Hemithioindigo Antimitotics with Nearâ€Quantitative Bidirectional Photoswitching that Photocontrol Cellular Microtubule Dynamics with Singleâ€Cell Precision**. Angewandte Chemie - International Edition, 2021, 60, 23695-23704.	7.2	34
153	Microtubule Dynamics Analysis Using Kymographs and Variable-Rate Particle Filters. IEEE Transactions on Image Processing, 2010, 19, 1861-1876.	6.0	33
154	CLASP2 interacts with p120-catenin and governs microtubule dynamics at adherens junctions. Journal of Cell Biology, 2013, 203, 1043-1061.	2.3	33
155	Dendritic Spine Plasticity: New Regulatory Roles of Dynamic Microtubules. Neuroscientist, 2010, 16, 650-661.	2.6	32
156	End Binding Proteins Are Obligatory Dimers. PLoS ONE, 2013, 8, e74448.	1.1	32
157	Biophysical and Structural Characterization of the Centriolar Protein Cep104 Interaction Network. Journal of Biological Chemistry, 2016, 291, 18496-18504.	1.6	31
158	GAS2L1 Is a Centriole-Associated Protein Required for Centrosome Dynamics and Disjunction. Developmental Cell, 2017, 40, 81-94.	3.1	31
159	Systematic identification of recognition motifs for the hub protein LC8. Life Science Alliance, 2019, 2, e201900366.	1.3	31
160	Mechanisms of Motor-Independent Membrane Remodeling Driven by Dynamic Microtubules. Current Biology, 2020, 30, 972-987.e12.	1.8	30
161	A drug discovery platform to identify compounds that inhibit EGFR triple mutants. Nature Chemical Biology, 2020, 16, 577-586.	3.9	30
162	Kinesin-4 KIF21B limits microtubule growth to allow rapid centrosome polarization in T cells. ELife, 2020, 9, .	2.8	29

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163	Structural basis for misregulation of kinesin KIF21A autoinhibition by CFEOM1 disease mutations. Scientific Reports, 2016, 6, 30668.	1.6	26
164	MICAL3 Flavoprotein Monooxygenase Forms a Complex with Centralspindlin and Regulates Cytokinesis. Journal of Biological Chemistry, 2016, 291, 20617-20629.	1.6	25
165	Plocabulin, a novel tubulin-binding agent, inhibits angiogenesis by modulation of microtubule dynamics in endothelial cells. BMC Cancer, 2018, 18, 164.	1.1	25
166	Implementing a "publish, then review" model of publishing. ELife, 2020, 9, .	2.8	25
167	Cel6A, a major exoglucanase from the cellulosome of the anaerobic fungi Piromyces sp. E2 and Piromyces equi. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1628, 30-39.	2.4	24
168	In Vitro Reconstitution of Dynamic Microtubules Interacting with Actin Filament Networks. Methods in Enzymology, 2014, 540, 301-320.	0.4	24
169	Mechanical and Geometrical Constraints Control Kinesin-Based Microtubule Guidance. Current Biology, 2014, 24, 322-328.	1.8	24
170	Structural basis of katanin p60:p80 complex formation. Scientific Reports, 2017, 7, 14893.	1.6	24
171	In Vivo Photocontrol of Microtubule Dynamics and Integrity, Migration and Mitosis, by the Potent GFP-Imaging-Compatible Photoswitchable Reagents SBTubA4P and SBTub2M. Journal of the American Chemical Society, 2022, 144, 5614-5628.	6.6	24
172	Lattice defects induced by microtubule-stabilizing agents exert a long-range effect on microtubule growth by promoting catastrophes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
173	Guided by Light: Optical Control of Microtubule Gliding Assays. Nano Letters, 2018, 18, 7524-7528.	4.5	23
174	Pharmaceutical-Grade Rigosertib Is a Microtubule-Destabilizing Agent. Molecular Cell, 2020, 79, 191-198.e3.	4.5	22
175	Deep-learning method for data association in particle tracking. Bioinformatics, 2020, 36, 4935-4941.	1.8	22
176	Direct observation of dynamic protein interactions involving human microtubules using solid-state NMR spectroscopy. Nature Communications, 2020, 11, 18.	5.8	20
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